



M&E in ESA: progress and the way ahead

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ESA Review and Planning Meeting

9-11 September 2014

Arusha, Tanzania





Overview

M&E Activities in ESA

- Mega-site stratification by drivers of SI and creation of “development domains”
- Identification of representative control sites
- Site visits and focus groups
- Babati IE of fertilizer vouchers and improved maize seeds
- Open access M&E data management platform (PMMT) dev’t and trainings (TZ: July 25--12 trainees; MWI: Aug 2--12 trainees; ZA: Aug 5--10 trainees)
- FtF indicators reporting
- Meetings (survey design, project review & planning, annual M&E)
- ARBES: Malawi and Tanzania



MARBES: sample distribution in MWI

		Beneficiary: Mother	Beneficiary: Baby	Non- Beneficiary	Control	Sample
District	Section					
Dedza	Golomoti Centre	2	98	24	0	124
	Mposa	2	69	81	0	152
	Thete	0	0	0	141	141
	Mtakataka Center	0	0	0	161	161
Ntcheu	Kampanje	2	133	60	0	195
	Mpamadzi	2	90	42	0	134
	Mwalaoyera	0	0	0	164	164
	Sitolo	0	0	0	78	78
	Total	8	390	207	544	1,149



TARBES: sample distribution in TZA

		Africa Rising	Babati Ie W/Coupon	Babati Ie W/Out Coupon	Non-Beneficiary In Beneficiary Village	Control	All Sample	by district
Region Id	Ward Id							
Kiteto	Njoro	0	0	0	18	15	33	48
	Dosidos	0	0	0	0	15	15	
Kongwa	Mkame	0	0	0	0	15	15	148
	Gallapo	0	0	0	0	15	15	
	Njoge	0	0	0	0	15	15	
	Ugogoni	0	0	0	0	15	15	
	Mlali	0	0	6	15	0	21	
	Arri	0	0	0	0	30	30	
	Chiwe	0	0	0	22	15	37	
Babati	Madunga	0	0	0	16	60	76	614
	Gidas	0	0	0	0	15	15	
	Dareda	53	72	58	15	15	213	
	Dabil	23	59	58	15	15	170	
	Bashnet	27	36	32	15	15	125	
	Magugu	0	0	0	0	15	15	
	Total	103	167	154	116	270	810	810



MARBES: village characteristics in MWI

	Action villages	Control villages	Total
LGP(date)	162.54	161.79	162.15
Slope(degree)	1.35	1	1.17
Mkt access(min)	235.50**	182.86**	208.2
Elevation(meter)	897.58	947.11	923.26
PopDen(# per sqkm)	198.62***	332.07***	267.81
Rainfall(mm)	937.25***	919.42***	928.01
Temp(cecius*10)	212	209.89	210.91
Tropic_warm(semiarid)	0.85	0.75	0.8
Tropic_cool(semiarid)	0.15	0.25	0.2
* significant at 10%; ** significant at 5%; *** significant at 1%			
N	26	28	54



MARBES: MWI basic statistics/1

	Beneficiary	Non-Beneficiary	Control	Total
Household size	4.95***	4.57	4.57**	4.71
# of adults(age>=15)	2.66***	2.44	2.45**	2.52
# of children(age<15)	2.30*	2.13	2.13	2.19
# of women(age>=15)	1.37	1.31	1.33	1.34
Dependency ratio	1.23	1.28	1.28	1.26
Age of household head	45.5	46.59	45.26	45.58
Avg. adult yrs of age	36.77	37.46	36.96	36.98
Education of hh head	5.08**	4.55	4.61	4.76
Avg adult yrs of education	5.21***	4.55*	4.73	4.87
% of adults w/t educ	0.11***	0.16	0.18***	0.16
% of adults w/ STD educ	0.72**	0.71	0.67**	0.69
% of adults w/ FORM educ	0.16	0.11*	0.15	0.14
% of adults w/ coll/univ educ	0	0.02***	0	0.01
Head=married/cohabiting	0.75***	0.62**	0.65*	0.68
Head==single	0.01	0.01	0.02	0.01
Head==female	0.27**	0.34	0.34	0.32



MARBES: MWI basic statistics/2

	Beneficiary	Non-Beneficiary	Control	Total
Land operated(ha)	1.16***	0.93	0.83***	0.96
Per capita land operated(ha)	0.28***	0.23	0.22***	0.25
Total value of animals owned, MWK	71673.36***	35439.79	24318.46*	42747.62
Tropical Livestock Units: total	0.68***	0.42	0.24***	0.42
Monthly per capita expenditure	8080.72***	6100.29	5894.29**	6689.96
Monthly per capita expenditure (2011 prices)	6657.07***	5025.55	4855.84**	5511.33
Poverty headcount ratio	0.46***	0.57	0.62***	0.56
Poverty gap	0.18***	0.25	0.27***	0.23
Severity of poverty	0.09***	0.14	0.15***	0.13
Wealth index	0.24***	-0.12*	-0.13***	0
Agriculture wealth index	0.28***	-0.12*	-0.17***	0
Non-agriculture wealth index	0.15***	-0.08	-0.07**	0
HH daily energy intake, per capita	1832.7	1782.64	1805.3	1810.64
HH daily energy intake, per adult equivalent	2689.79	2745.47	2720.26	2714.31
Share of food expenditure	0.68	0.68	0.67	0.67
Shr. of cereals of total hh calorie intake	0.49***	0.53	0.55***	0.53
Shr. of roots of total hh calorie intake	0.05	0.05	0.05	0.05
Shr. of pulses of total hh calorie intake	0.09	0.11	0.1	0.1
Shr. of nuts of total hh calorie intake	0.06	0.06	0.06	0.06
* significant at 10%; ** significant at 5%; *** significant at 1%				
N	398	207	544	1149

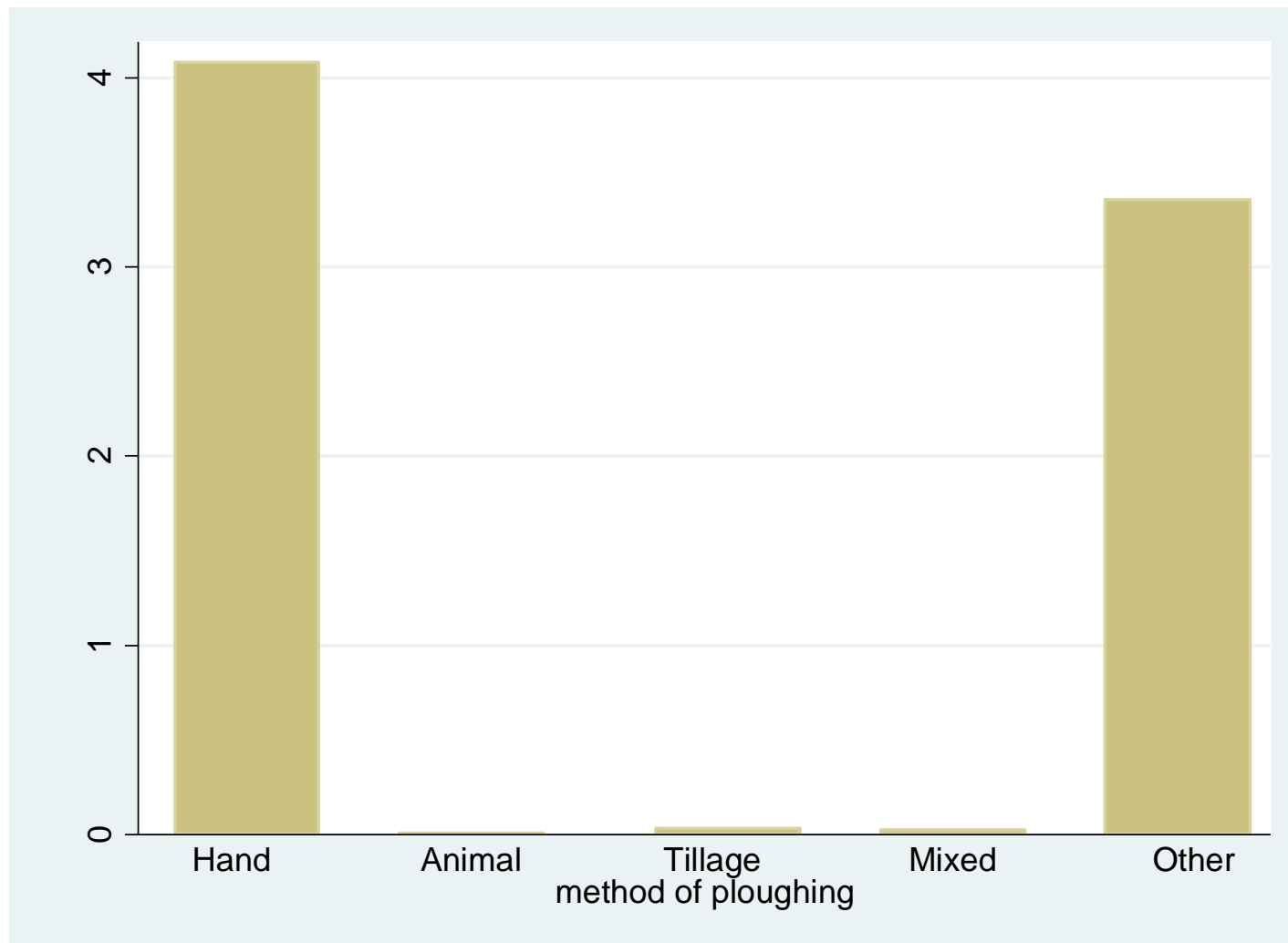


MARBES: MWI agric statistics/1

	Beneficiary	Non-Beneficiary	Control	Total
Size of operated land (ha)	1.24***	0.97	0.87***	1.02
Size of operated land per capita (ha)	0.30***	0.24	0.23***	0.26
Total # of parcels	2.89***	2.38	1.96***	2.36
Intercropped plots at hh (ha)	0.58***	0.51	0.44***	0.5
Legumes intercropped plots at hh(ha)	0.25**	0.22	0.18**	0.21
% of intercropped plots	0.53	0.64***	0.52**	0.54
% of hh practicing intercropping	0.82***	0.85***	0.68***	0.76
# of crops per plot	1.84	1.94***	1.73***	1.8
# of maize crops per plot	0.67***	0.77	0.82***	0.75
# of intercropped plots at hh	1.80***	1.57*	1.09***	1.42
# of intercropped plots w/ legumes at hh	1.63***	1.42	0.99***	1.29
% of hhs using irrigation: dimba season	0.15***	0.12	0.06***	0.1
% of hh who practice rotation	0.85***	0.73	0.59***	0.7
% of hh who practices fallowing	0.09	0.07	0.08	0.08
% of hh who practice alternative tillage	0.04***	0	0.01***	0.02
% of hh who practice zero/minimum tillage	0.03***	0	0.00***	0.01
% of hh affected by soil erosion	0.44	0.43	0.48	0.46
% of hh with soil erosion who took no measure	0.08	0.07	0.07	0.07



MARBES: MWI ploughing methods





MARBES: MWI agric statistics/2

	Beneficiary	Non-Beneficiary	Control	Total
% of hhs with closest parcel:<15 min	0.75***	0.57	0.54***	0.62
% of hhs with closest parcel:15-30 min	0.14***	0.25*	0.24**	0.21
% of hhs with closest parcel:30-60 min	0.08***	0.15	0.15**	0.13
% of hhs with closest parcel:> 1 hour	0.03**	0.03	0.07***	0.05
Travel time to seed supplier	43.25	42.46	38.51	41.03
% of hh using improved variety:cereals	0.87***	0.65**	0.62***	0.71
% of hh using improved variety:maize	0.87***	0.63**	0.62***	0.71
% of hh using improved variety:legumes	0.85***	0.55**	0.45***	0.61
% of hh using improved variety:groundnut	0.72***	0.39**	0.31***	0.47
% of hh using improved variety:beans	0.15	0.2	0.17	0.17
% of hh using manure	0.68***	0.57	0.44***	0.54
Value of traditional seeds purchased,MWK	701.6	721.31	586.11	650.47
Value of improved seed purchased,MWK	1393.2	1297.28	1592.68	1470.37
Value of fertilizer used,MWK	19471.50***	13485.76	10905.10*	14337.33
% of hh using hired labor	0.50***	0.32***	0.39*	0.42
% of hh using communal labor	0.37**	0.29	0.31	0.33

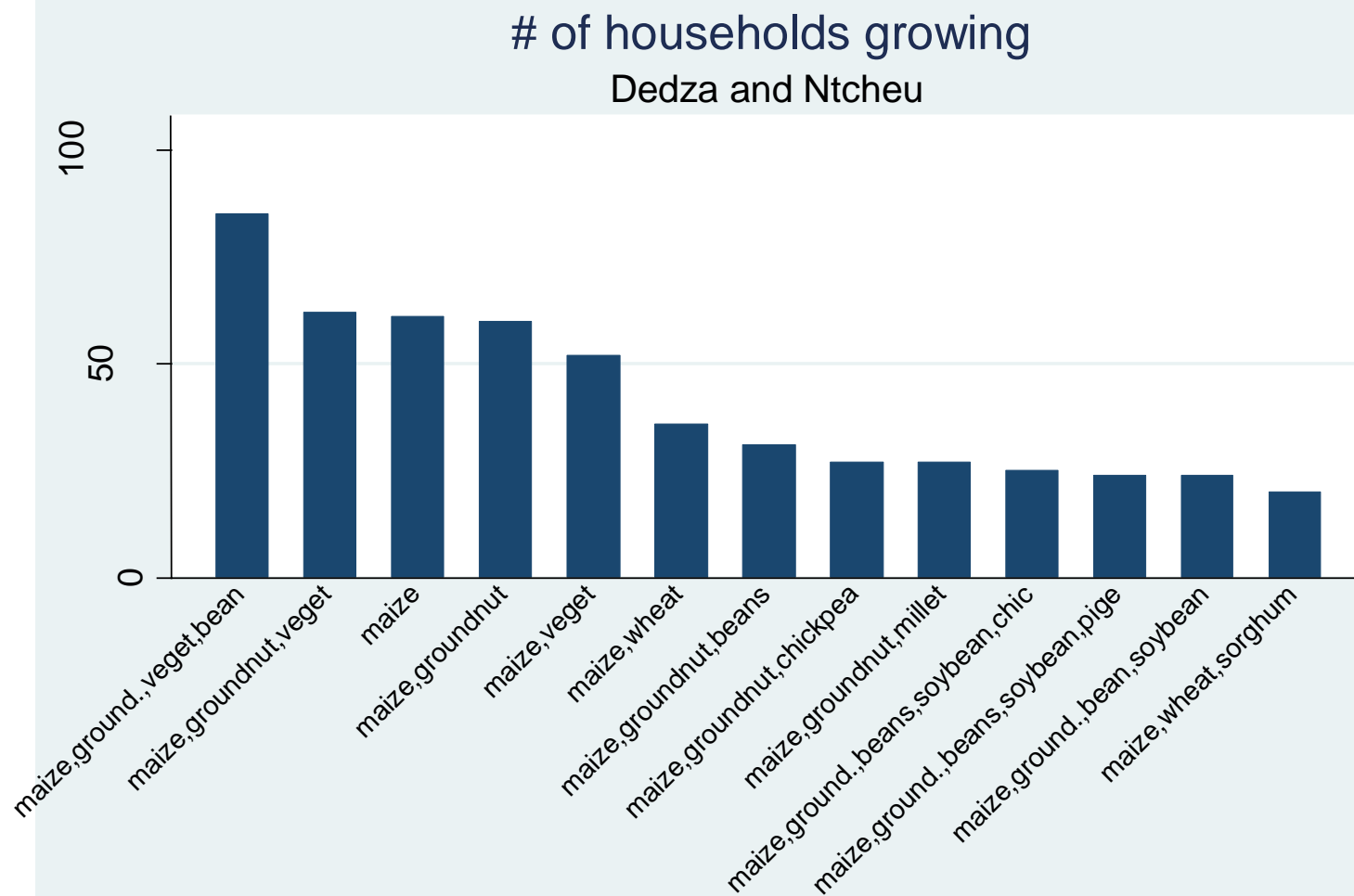


MARBES: MWI agric statistics/3

	Beneficiary	Non-Beneficiary	Control	Total
Total person-days used, male	163.78***	115.75	99.46***	124.67
Total person-days used, female	163.98***	131.94	122.72***	138.67
Total person-days of communal labor used	7.86	7.87	6.13	7.04
Total person-days used, male & female, excl. communal labor	327.75***	247.69	222.19***	263.35
Total person-days used, incl. communal labor	335.62***	255.56	228.32***	270.39
Production of cereal (kg)	938.06***	763.19	626.22***	759.33
Production of maize (kg)	904.62***	743.89	618.23***	740.45
Production of legumes (kg)	158.94**	156	125.61***	142.67
Production of groundnut (kg)	96.53***	80.24	70.17***	81.15
Production of beans (kg)	19.37***	31.30*	29.04*	26.08
Yield of cereal (kg/ha)	2311.97***	2238.44	1781.18**	2047.39
Yield of maize (kg/ha)	2413.18***	2352.36	1847.02**	2134.13
Yield of legumes (kg/ha)	594.88	727.56	547.13	600.02
Yield of groundnut (kg/ha)	1060.72	934.56	1039.8	1029.66
Yield of beans (kg/ha)	440.34	573.57	482.28	490.48
* significant at 10%; ** significant at 5%; *** significant at 1%				
N	398	207	544	1149



MARBES: MWI farming system



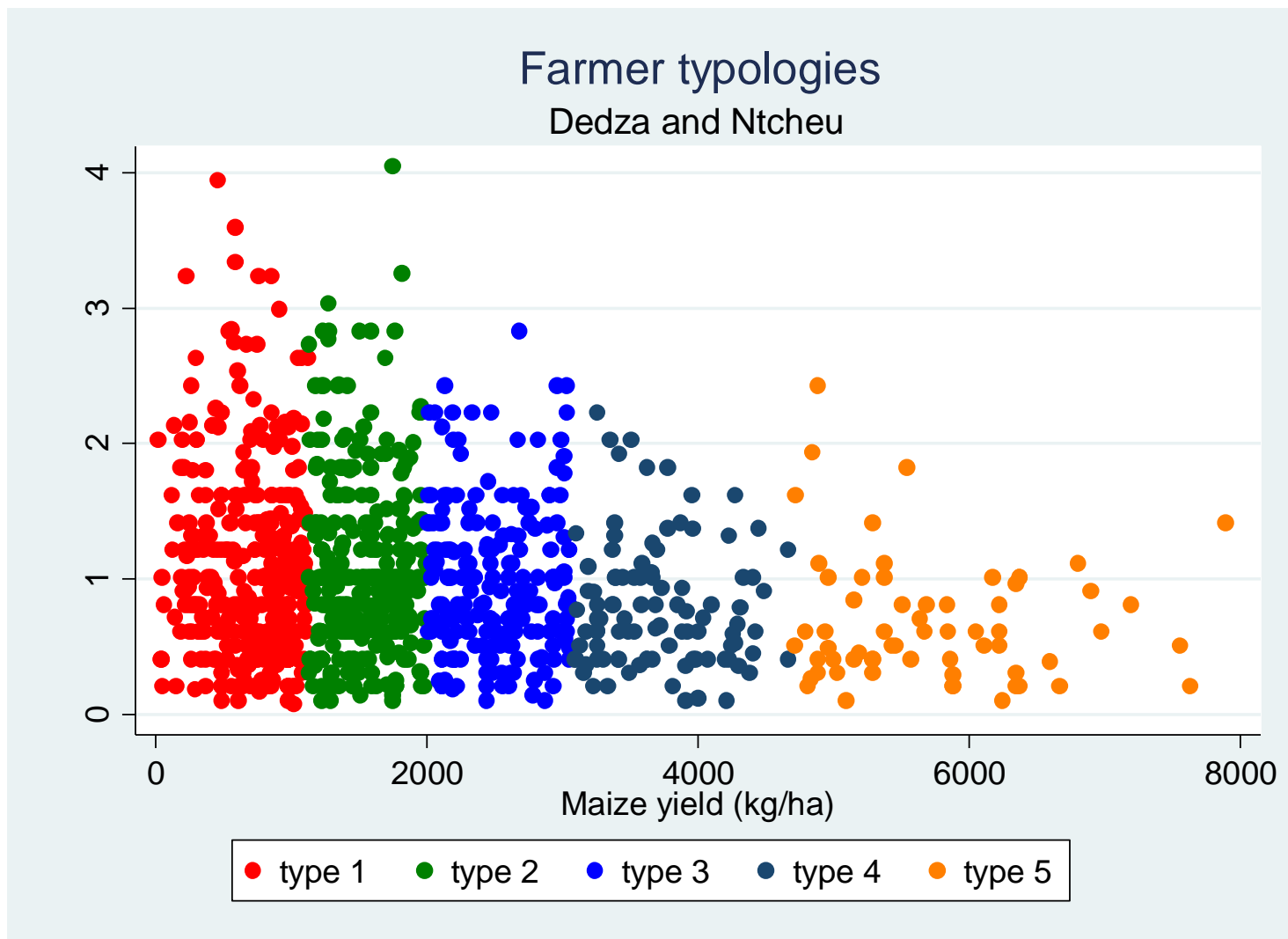


MARBES: MWI typologies/1

typology	1	2	3	4	5	Total
Maize yield (kg/ha)	691.56***	1530.38**	2496.35**	3710.56**	5942.86**	1941.55
Total land operated (ha)	1.10***	1.05	0.99	0.80***	0.67***	1.01
TLU total/per hectare	0.25***	0.41	0.37	0.51**	0.73***	0.38
Number of parcels operated	2.34**	2.48	2.66***	2.47	2.25	2.45
Agricultural wealth index	-0.05***	0.17**	0.15	0.06	0.04	0.07
Ratio female/male person-days	1.8	1.75	1.66	1.29	1.96	1.72
% of hh using hired labor	0.37***	0.50*	0.51	0.55*	0.46	0.46
Communal person-days/per hectare	5.91	4.45**	6.4	9.61**	7.8	6.06
* significant at 10%; ** significant at 5%; *** significant at 1%						
N	349	299	205	98	68	1019



MARBES: MWI typologies/2





MARBES: MWI livestock statistics

	Beneficiary	Non-Beneficiary	Control	Total
% of hh who own draught cattle	0.01**	0	0.00*	0.01
% of hh who own bulls -local	0.03**	0.02	0.00***	0.01
% of hh who own cows -local	0.07***	0.03	0.02***	0.04
% of hh who own feifers -local	0.03***	0	0.00***	0.01
% of hh who own calves -local	0.04***	0.01	0.01***	0.02
% of hh who own goats -local	0.54***	0.38	0.31***	0.4
% of hh who own pigs -local	0.25***	0.17	0.10***	0.17
% of hh who own pigs -improved	0.01	0.01	0.01	0.01
% of hh who own chickens	0.71***	0.61	0.50***	0.59
% of hh who own pther livestock	0.14***	0.05***	0.1	0.11
# of draught cattle	2.2	2	2	2.14
# of bulls -local	3.10**	1.5	1	2.44
# of cows -local	3.44	6.17**	2.5	3.6
# of heifers -local	2	1	1	1.83
# of calves -local	2	3.33	1.67	2.15
# of goats -local	3.94***	3.61	3.06***	3.56
# of pigs -local	3.33	2.86	3.25	3.22
# of pigs -improved	3.33	1.5	2.13	2.31
# of chickens	8.27***	7.19	6.75**	7.46
# of other livestock	8.13	6.82	6.05	7.07

* significant at 10%; ** significant at 5%; *** significant at 1%



MARBES: MWI child anthropometrics

	Beneficiary	Non-Beneficiary	Control	Total
Height-for-Age(Z-score)	-1.8	-1.7	-1.7	-1.73
Weight-for-Age(Z-score)	-0.73	-0.79	-0.78	-0.77
Weight-for-Height(Z-score)	0.42*	0.19	0.15	0.24
% of moderately stunted	43.68*	36.84	36.02	38.68
% of moderately underweight	12.78	12.24	12.41	12.5
% of moderately wasted	2.89	2.08	4.69	3.62
% of severely stunted	17.24	17.89	13.79	15.66
% of severely underweight	0.56**	2.04	4.14**	2.57
% of severely wasted	0	1.04	1.56	0.95
* significant at 10%; ** significant at 5%; *** significant at 1%				
N	180	98	267	545



TARBES: village characteristics in TZA

	Action villages	Control villages	Total
Household size	6.23**	5.44**	5.66
# of adults(age>=15)	3.21*	2.85*	2.95
# of children(age<15)	3.02	2.59	2.71
# of women(age>=15)	1.52	1.41	1.44
Dependency ratio	1.26	1.34	1.31
Age of household head	45.08	47.6	46.9
Avg. adult yrs of age	36.29	37.53	37.18
Education of hh head	7.13	6.92	6.98
Avg adult yrs of education	7.37	7.05	7.14
% of adults w/ STD educ	0.65	0.59	0.61
% of adults w/ FORM educ	0.12*	0.06*	0.08
% of adults w/ coll/univ educ	0	0.01	0.01
Head=married/cohabiting	0.79	0.78	0.78
Head==single	0.05	0.03	0.04
Head==female	0.12	0.17	0.16
Land operated(ha)	2.48	2.66	2.61
Per capita land operated(ha)	0.5	0.59	0.56
% of hhs in bottom two quintiles of wealth index	0.39	0.5	0.47
% of hhs in bottom two quintiles of agr wealth index	0.43	0.47	0.46
Total value of animals owned, MWK	1254954.39	1887905.56	1710679
Tropical Livestock Units: total	3	4.36	3.98
* significant at 10%; ** significant at 5%; *** significant at 1%			
N	7	18	25



TARBES: TZA basic statistics

	Beneficiary	Non-beneficiary	Control	Babati IE	Total
Household size	7.41***	5.95	5.44***	6.21	6.07
# of adults(age>=15)	4.11***	3.00*	2.85***	3.40**	3.25
# of children(age<15)	3.30**	2.95	2.59**	2.82	2.82
# of women(age>=15)	1.86***	1.45	1.41***	1.57	1.54
Dependency ratio	1.18	1.29	1.34	1.23	1.26
Age of household head	50.01**	43.09***	47.6	46.94	47.05
Avg. adult yrs of age	36.78	35.39	37.53	36.79	36.86
Education of hh head	7.02	7.49	6.97	7.24	7.17
Avg adult yrs of education	7.97**	7.48	7.07***	7.74**	7.53
% of adults w/ STD educ	0.68	0.64	0.59***	0.69***	0.65
% of adults w/ FORM educ	0.22***	0.13	0.06***	0.18***	0.14
% of adults w/ coll/univ educ	0	0	0.01	0.01	0.01
Head=married/cohabiting	0.87**	0.8	0.78	0.79	0.8
Head==single	0.00**	0.04	0.03	0.07***	0.05
Head==female	0.1	0.12	0.17**	0.12	0.13
% of hhs in bottom two quintiles of wealth index	0.17***	0.45	0.53***	0.36**	0.4
% of hhs in bottom two quintiles of agr wealth index	0.19***	0.50**	0.50***	0.36**	0.4
Total value of animals owned, TSH, imputed	2331096.12*	1048106.67**	1906961	1702797	1766748
Tropical Livestock Units: total	4.53	2.48	4.36*	3.19	3.67
* significant at 10%; ** significant at 5%; *** significant at 1%					

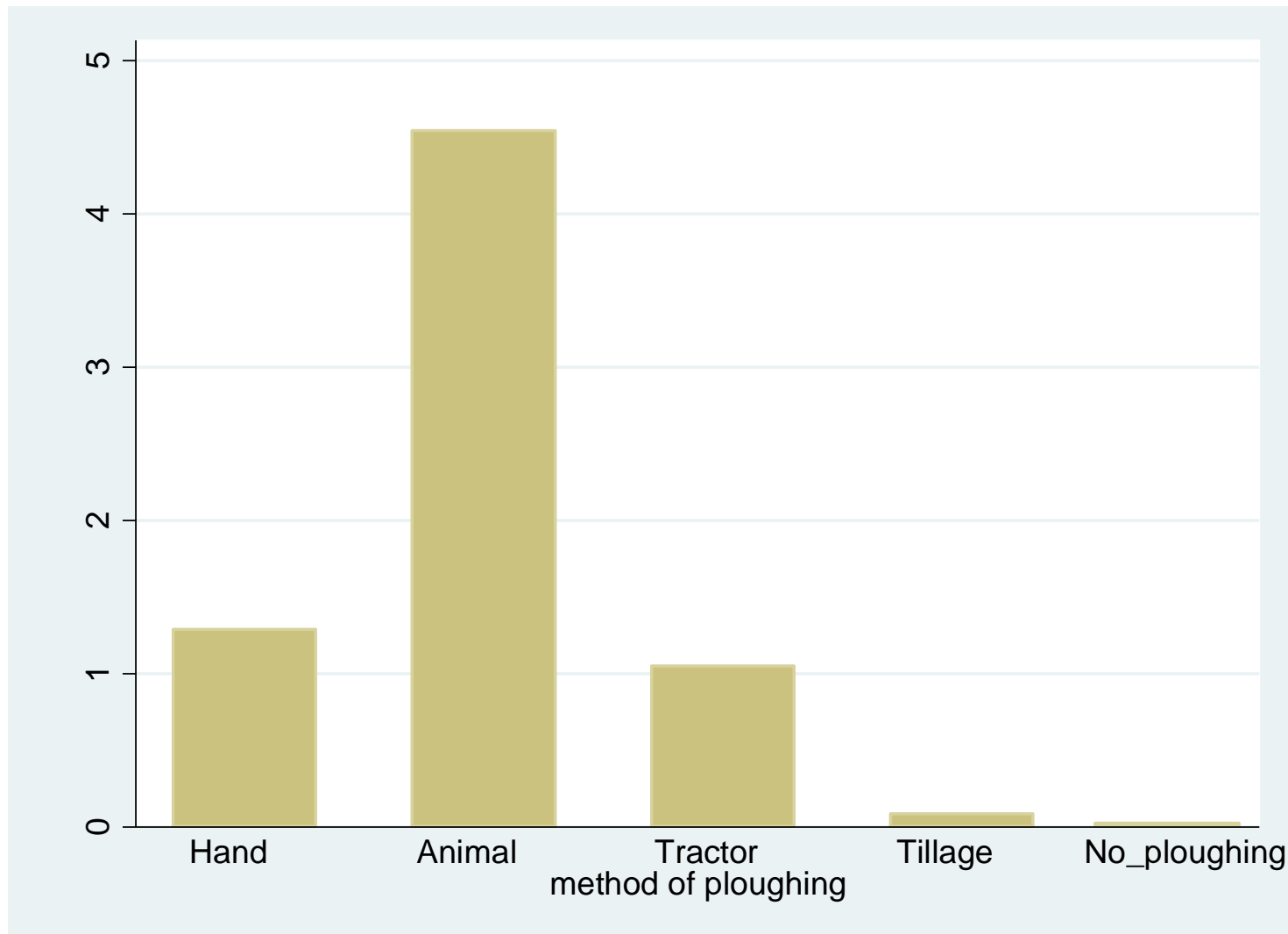


TARBES: TZA agricultural statistics/1

	Beneficiary	Non-beneficiary	Control	Babati IE	Total
Size of operated land (ha)	3.30**	2.44	2.86**	1.46***	2.3
Size of operated land per capita (ha)	0.43	0.51	0.62***	0.28***	0.44
Total # of parcels	2.64***	2	2.00*	2.04	2.1
Intercropped plots at hh (ha)	1.46*	1.50**	1.07**	1.2	1.23
Legumes intercropped plots at hh(ha)	0.63***	0.34*	0.29***	0.52***	0.43
% of intercropped plots	0.84***	0.71	0.53***	0.87***	0.73
% of hh practicing intercropping	0.94***	0.8	0.62***	0.94***	0.81
# of crops per plot	2.41***	2.06*	1.76***	2.53***	2.2
# of maize crops per plot	0.87	0.88	0.76***	0.92***	0.85
# of intercropped plots at hh	2.09***	1.34	0.94***	1.79***	1.48
# of intercropped plots w/ legumes at hh	1.93***	0.90***	0.76***	1.65***	1.29
% of hhs using irrigation	0.02	0.01	0.02	0.03	0.02
% of hh who practice rotation	0.30***	0.16	0.15**	0.23	0.2
% of hh who practice fallowing	0.03	0.02	0.03	0.02	0.03
% of hh who practice alternative tillage	0.01	0.01	0.03***	0.00**	0.01
% of hh who practice zero/minimum tillage	0	0.01	0.02**	0.00*	0.01
% of hh affected by soil erosion	0.12	0.1	0.17*	0.14	0.14
% of hh with soil erosion who took no measure	0.02	0.03	0.04	0.04	0.04



TARBES: TZA ploughing methods





TARBES: TZA agricultural statistics/2

	Beneficiary	Non-beneficiary	Control	Babati IE	Total
% of hhs with closes parcel adjacent to homestead	0.90***	0.60***	0.60***	0.81***	0.72
% of hhs with closest parcel:<15 min	0.05*	0.1	0.15***	0.07**	0.1
% of hhs with closest parcel:15-30 min	0.04*	0.1	0.11*	0.08	0.09
% of hhs with closest parcel:31-60 min	0.01**	0.10*	0.10***	0.04**	0.06
% of hhs with closest parcel:> 1 hour	0.00*	0.09***	0.05*	0.01***	0.03
% of hh using improved variety:cereals	0.93***	0.42***	0.38***	0.86***	0.65
% of hh using improved variety:legumes	0.07	0.04	0.03*	0.08**	0.06
% of hh using improved variety:maize	0.93***	0.42***	0.37***	0.86***	0.65
% of hh using improved variety:groundnut	0	0	0	0	0
% of hh using improved variety:beans	0.05	0.01	0.02*	0.05**	0.03
% of hh using manure	0.77***	0.41***	0.37***	0.71***	0.56
Value of traditional seeds purchased,TSH	14891.65***	6820.95	4787.22	5702.03	6726.64
Value of improved seed purchased,TSH	103066.13***	27891.27***	27875.25***	62860.71*	51652.41
(Est.) value of fertilizer used,TSH	245.10*	619.05	2135.34	5736.11**	3141.19
Total person-days used	135.74***	97.36	88.98***	110.67	104.85



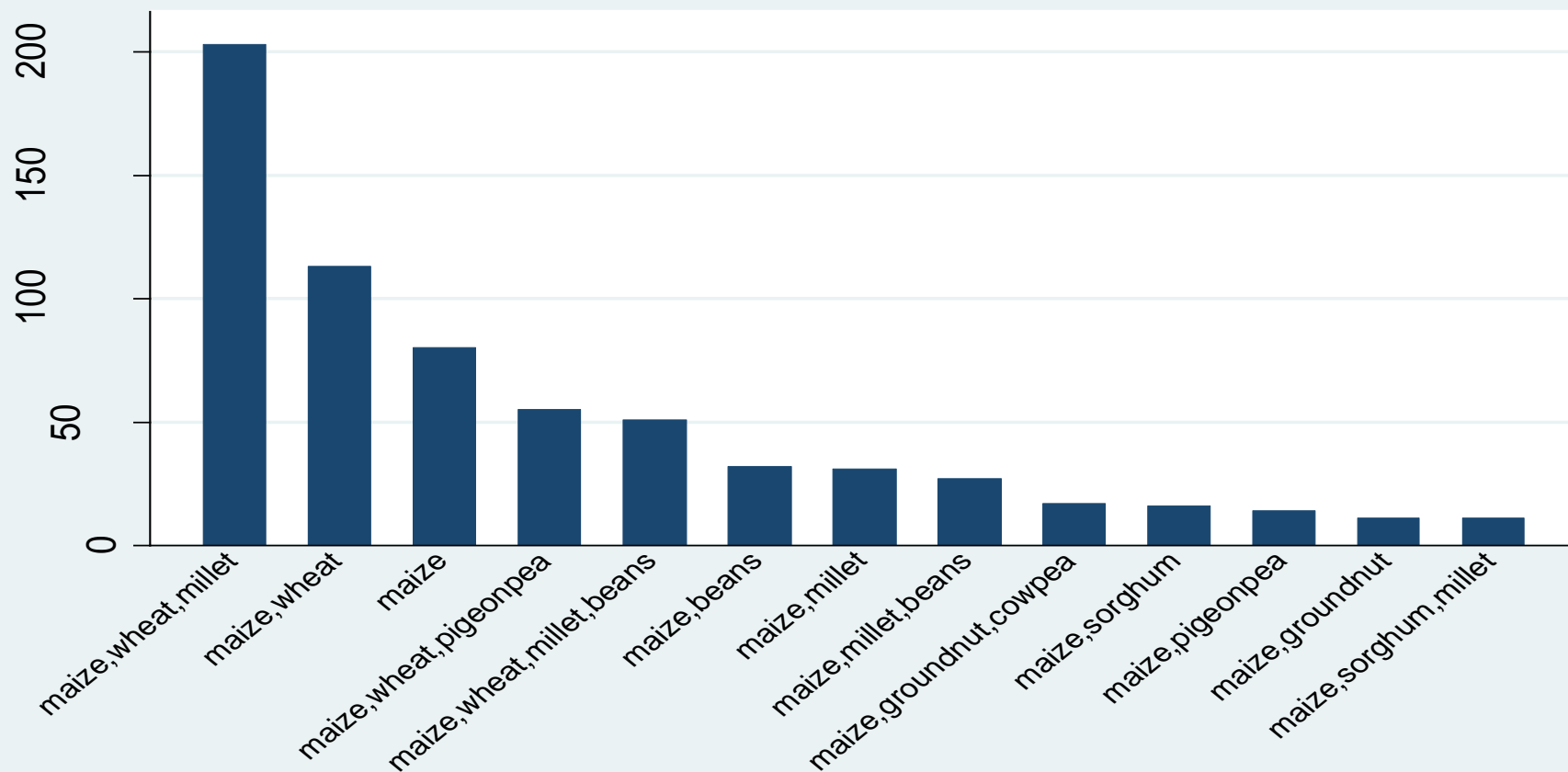
TARBES: TZA agricultural statistics/3

	Beneficiary	Non-beneficiary	Control	Babati IE	Total
% of hh who did not use exchange labor	0.77	0.79	0.79	0.76	0.77
% of hh who used exchange labor (upto 50%)	0.23	0.16	0.16	0.21	0.19
% of hh who used exchange labor (more than 50%)	0.00**	0.05	0.05	0.03	0.04
% of hh who did not use hired labor	0.31***	0.48	0.53***	0.43	0.45
% of hh who used hired labor (upto 50%)	0.33	0.29	0.27	0.34	0.31
% of hh who used hired labor (more than 50%)	0.35***	0.24	0.20**	0.24	0.24
Production of cereal(kg)	2641.92***	1270.08***	1376.92**	1807.4	1699.06
Production of legumes(kg)	250.16**	168.77	148.80***	207.26	188.05
Production of maize(kg)	2582.03***	1335.94*	1229.97**	1813.80*	1653.3
Production of beans(kg)	53.24***	17.19***	10.88***	56.62***	35.6
Production of groundnut(kg)	0.00**	46.97	65.58***	1.55***	28.88
Yield of cereal (kg/ha)	3084.21***	1517.67***	1681.65**	3172.49**	2440.21
Yield of legumes (kg/ha)	502.59	582.84	569.35	532.22	542.5
Yield of maize (kg/ha)	3305.77***	1597.49***	1780.93**	3214.46**	2545.85
Yield of beans (kg/ha)	225.46*	317.96	217.28*	315.66**	284.16
Yield of groundnut (kg/ha)	.	922.33	735.28	331.58	761.86
* significant at 10%; ** significant at 5%; *** significant at 1%					
N	102	105	266	319	792



TARBES: TZA farming system

of households growing
Tanzania ARBES

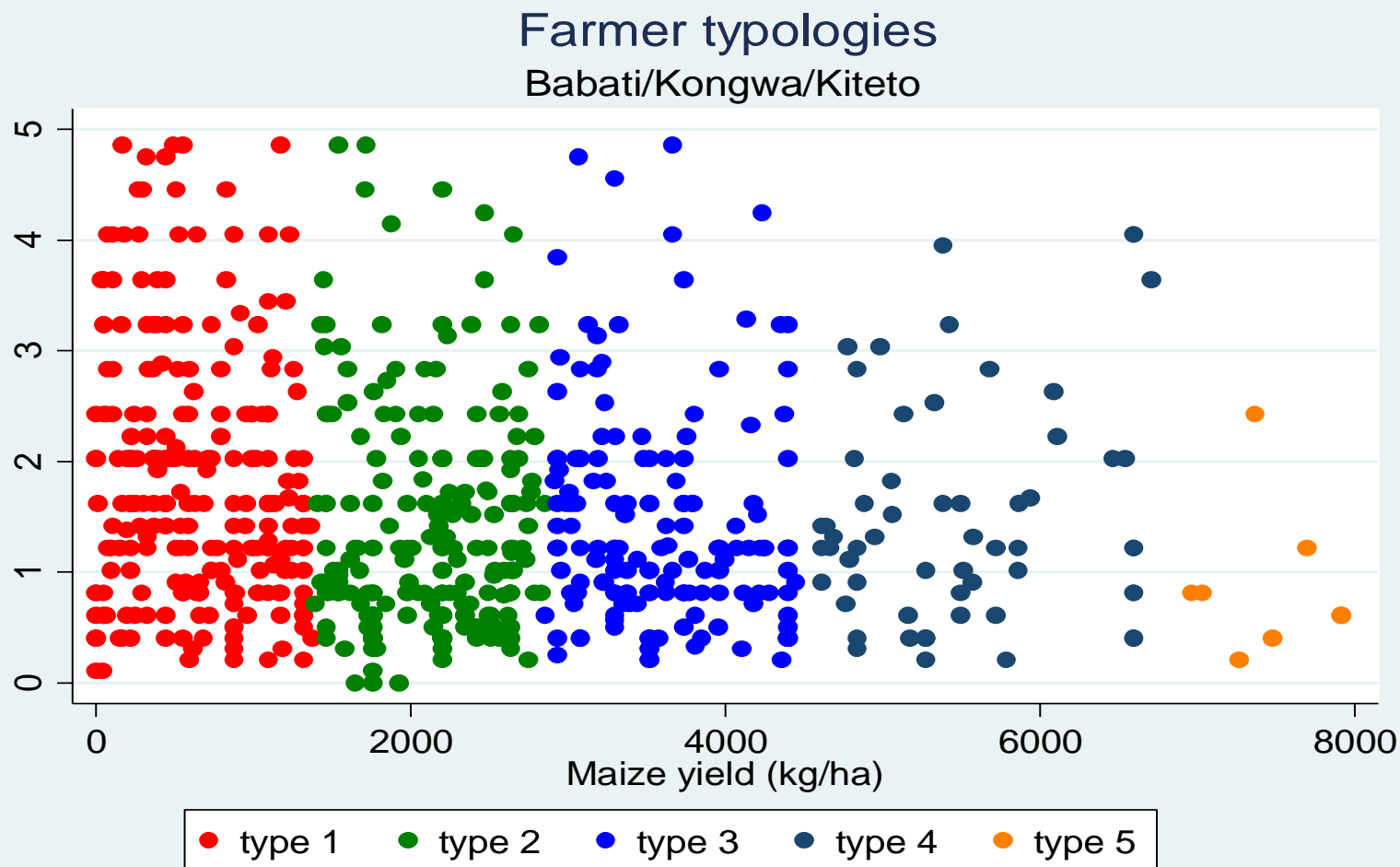




TARBES: TZA typologies/1

Typology	1	2	3	4	5	Total
Maize yield (kg/ha)	637.23***	2132.21**	3595.46**	5519.80**	8215.91**	2346
Total land operated (ha)	2.66	1.78*	1.88	2.19	7.63***	2.3
TLU total/per hectare, imputed	1.39***	2.46**	2.45**	2.93***	2.94	2.12
Number of parcels operated	2.00*	2.06	2.18	2.33*	2.58*	2.1
Agricultural wealth index	-0.20***	0.02	0.15**	0.32***	0.56**	0.01
Used no hired labor	0.55***	0.45	0.37**	0.24***	0.21**	0.44
Used hired labor (upto 50% of agr labor used)	0.25***	0.31	0.40***	0.36	0.37	0.31
Used hired labor (more than 50% of agr labor used)	0.20**	0.24	0.24	0.39***	0.42*	0.24
Observations	282	236	169	66	19	772

TARBES: TZA typologies/2





TARBES: TZA livestock statistics/1

	Beneficiary	Non-beneficiary	Control	Babati IE	Total
% of hh who own draught cattle	0.61***	0.26***	0.26***	0.43***	0.37
% of hh who own bulls -local	0.15	0.11	0.19	0.17	0.17
% of hh who own bulls -improved	0.05**	0.02	0.00***	0.03	0.02
% of hh who own fattening cattle -local	0.02*	0.02*	0	0	0.01
% of hh who own cows -local	0.69***	0.33***	0.39***	0.60***	0.51
% of hh who own cows -improved	0.20***	0.05	0.05**	0.09	0.09
% of hh who own heifers -local	0.14	0.07	0.1	0.1	0.1
% of hh who own heifers -improved	0.01	0.01	0.00*	0.02**	0.01
% of hh who own calves -local	0.51***	0.26*	0.25***	0.36	0.33
% of hh who own calves -improved	0.10***	0.01	0.02*	0.04	0.04
% of hh who own horse/donkey/mule	0.08	0.02**	0.1	0.09	0.08
% of hh who own goats -local	0.58	0.43**	0.46**	0.58***	0.52
% of hh who own goats -improved	0.05	0.02	0.02	0.04	0.03
% of hh who own sheep	0.53***	0.25**	0.26***	0.38*	0.34
% of hh who own pigs -local	0.14	0.12	0.15**	0.07***	0.11
% of hh who own pigs -improved	0.04**	0	0.01	0.02	0.01
% of hh who own chickens	0.82***	0.54***	0.64**	0.76***	0.7



TARBES: TZA livestock statistics/2

	Beneficiary	Non-beneficiary	Control	Babati IE	Total
# of draught cattle	4.16	3.78	3.96	3.76	3.89
# of bulls -local	3.47	3.17	4.40**	2.80*	3.53
# of bulls -improved	1	1	.	1.78*	1.44
# of fattening cattle -local	10.5	10.5	.	2	8.8
# of cows -local	3.48	3.69	6.17***	3.00**	3.97
# of cows -improved	1.86	1.6	1.43	1.79	1.72
# of heifers -local	3.5	4	8.81***	2.36*	4.8
# of heifers -improved	1	1	1	1.13	1.09
# of calves -local	2.4	3.48	6.88***	2.19**	3.57
# of calves -improved	1.7	1	2	1.58	1.68
# of horse/donkey/mule	1.75	3	3.33***	2.11*	2.6
# of goats -local	4.97*	7.58	12.82***	6.20**	8.16
# of goats -improved	2.2	10.00***	2.2	2.17	2.83
# of sheep	4.78	5.12	8.13***	4.27***	5.45
# of pigs -local	2.07	1.92	1.85	2.5	2.07
# of pigs -improved	6.5	.	2.5	3	4.18
# of chickens	8.21	7.05	6.51*	7.48	7.25
N	103	105	270	321	799
* significant at 10%; ** significant at 5%; *** significant at 1%					



TARBES: TZA child anthropometrics

	Beneficiary	Non-beneficiary	Control	Babati IE	Total
Height-for-Age(Z-score)	-1.73	-1.89	-1.76	-1.89	-1.83
Weight-for-Age(Z-score)	-1.3	-1.07	-1.14	-1.08	-1.13
Weight-for-Height(Z-score)	-0.48*	0.04	-0.21	-0.08	-0.16
% of moderately underweight	23.33	21.69	24.55	23.81	23.65
% of moderately stunted	42.86	51.22	47.88	46.25	46.87
% of moderately wasted	5.75	6.02	6.83	5.62	6.03
% of severely underweight	5.56	6.02	7.19	7.54	6.93
% of severely stunted	16.48	29.27*	23.03	21.34	22.17
% of severely wasted	2.3	3.61	3.73	1.2	2.41
N	91	83	168	255	597
* significant at 10%; ** significant at 5%; *** significant at 1%					



Conclusions

Malawi -targeting-

Action communities not different than control -the former slightly more remote-

Beneficiaries seem to have different characteristics than the general population

Tanzania -targeting-

Action and control communities very similar

Again beneficiaries seem to be better-off, more educated, with higher wealth, larger land size, etc.

->Implications for scaling-up? What about the external validity of ex-ante evaluation?



Way ahead

- ARBES public good/service for AR! (ESA ARBES data (partially) shared with MSU, WUR, ICRISAT, BioSight, Montpellier)
- Targeting analysis, tentatively matching
- Ex-ante evaluation (results by November)
- Continuous monitoring (now...)



Thank You!

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